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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/941,006

08/27/2001

David E. Kimble

TI-33210

7032

23494

7590

09/22/2004

TEXAS INSTRUMENTS INCORPORATED

P O BOX 655474, M/S 3999

DALLAS, TX 75265

EXAMINER

SHERKAT, AREZOO

ART UNIT

PAPER NUMBER

2131

DATE MAILED: 09/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/941,006

Applicant(s)

KIMBLE ET AL.

Examiner

Arezoo Sherkat

Art Unit

2131

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 August 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 August 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claims 1-17 are presented for examination.

Drawings

Figures 1a, 1b, 2a, and 2b should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.121(d)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical

Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Kalkunte, (U.S. Patent No. 6,138,189 and Kalkunte hereinafter).

Regarding claims 1, 5, 7, and 9, Kalkunte discloses a cryptographic system comprising:

a first FIFO data storage device having a primary write address to receive unprocessed data via a first data path into the first FIFO data storage device, a primary read address, a secondary read address and a secondary write address, and an encryption/decryption circuit configured to read the unprocessed data via the secondary read address, selectively encrypt or decrypt the unprocessed data read via the secondary read address to generate processed data, and write the processed data back into the first FIFO data storage device via the secondary write address, such that the processed data written back into the first FIFO data storage device can be read from the first FIFO data storage device via the primary read address (Col. 3, lines 40-67 and Col. 4-6, lines 1-67).

Regarding claims 2, 4, 8, 10, and 12, Kalkunte discloses wherein the FIFO data storage device is a single port random access memory (Col. 3, lines 40-65).

Regarding claims 3, 6 and 11, Kalkunte discloses further comprising:

a second FIFO data storage device having a primary write address to receive unprocessed data via a second data path into the second FIFO data storage device, a primary read address, a secondary read address and a secondary write address, and a switching circuit configured to multiplex between the first and second FIFO data storage devices such that the encryption/decryption circuit can parallel process the unprocessed data stored in the first and second FIFO data storage devices to generate respective processed data, and write the respective processed data back into the first and second FIFO data storage devices via their respective secondary write addresses, such that the respective processed data written back into the first and second FIFO data storage devices can be read from the first and second FIFO data storage devices via their respective primary read addresses (Col. 3, lines 40-67 and Col. 4-6, lines 1-67).

Regarding claims 13 and 15, Kalkunte discloses a method of performing data cryptography comprising the steps of:

providing a first FIFO memory having a primary write address, a secondary read address, a primary read address, and a secondary write address, writing data into the first FIFO memory via its primary write address, providing a second FIFO memory having a primary write address, a secondary read address, a primary read address, and

a secondary write address, writing data into the second FIFO memory via its primary write address, providing a switcher configured to multiplex between the first and second FIFO memory secondary read addresses and the first and second FIFO memory secondary write addresses, multiplexing between the first and second FIFO memory secondary read addresses to selectively access the data written into the first and second FIFO memories, selectively encrypting or decrypting the multiplexed data to generate processed data, writing processed data generated from data stored in the first FIFO memory back into the first FIFO memory via its secondary write address, and writing processed data generated from data stored in the second FIFO memory back into the second FIFO memory via its secondary write address (Col. 4-7, lines 1-67).

Regarding claims 14 and 16-17, Kalkunte discloses further comprising the step of reading the written processed data via the primary read address (Col. 4-6, lines 1-67).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kalkunte, (U.S. Patent No. 5,859,980),

Wang et al., (U.S. Patent No. 6,327,625),


YLONEN et al., (U.S. Publication No. 2002/0062344), and

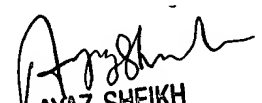
Lubarsky et al., (U.S. Patent No. 5,062,104).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arezoo Sherkat whose telephone number is (703) 305-8749/(703) 272-3796. The examiner can normally be reached on 8:00-4:30 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (703) 305-9648/(703) 272-3796. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Arezoo Sherkat
Patent Examiner
Group 2131
Sep. 17, 2004


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